

## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/954456 #3  
Source: OIPE  
Date Processed by STIC: 11/07/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

### Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:  
<http://www.uspto.gov/web/offices/pac/checker>

OIPE

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/954,456

DATE: 11/07/2001  
TIME: 15:21:39

Input Set : N:\EBONY'S\ES.txt  
Output Set: N:\CRF3\11072001\I954456.raw

3 <110> APPLICANT: Young, Paul  
5 <120> TITLE OF INVENTION: Process for Identifying Anti-Cancer Therapeutic Agents Using  
Cancer Gene  
6 Sets  
8 <130> FILE REFERENCE: 689290-76  
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/954,456 ✓  
C--> 10 <141> CURRENT FILING DATE: 2001-09-18  
10 <150> PRIOR APPLICATION NUMBER: US/60/233,617  
11 <151> PRIOR FILING DATE: 2000-09-18  
13 <150> PRIOR APPLICATION NUMBER: US/60/234,052  
14 <151> PRIOR FILING DATE: 2000-09-20  
16 <150> PRIOR APPLICATION NUMBER: US/60/234,923  
17 <151> PRIOR FILING DATE: 2000-09-25  
19 <150> PRIOR APPLICATION NUMBER: US/60/235,134  
20 <151> PRIOR FILING DATE: 2000-09-25  
22 <150> PRIOR APPLICATION NUMBER: US/60/235,637  
23 <151> PRIOR FILING DATE: 2000-09-26  
25 <150> PRIOR APPLICATION NUMBER: US/60/235,638  
26 <151> PRIOR FILING DATE: 2000-09-26  
28 <150> PRIOR APPLICATION NUMBER: US/60/235,711  
29 <151> PRIOR FILING DATE: 2000-09-27  
31 <150> PRIOR APPLICATION NUMBER: US/60/235,720  
32 <151> PRIOR FILING DATE: 2000-09-27  
34 <150> PRIOR APPLICATION NUMBER: US/60/235,840  
35 <151> PRIOR FILING DATE: 2000-09-27  
37 <150> PRIOR APPLICATION NUMBER: US/60/235,863  
38 <151> PRIOR FILING DATE: 2000-09-27  
40 <160> NUMBER OF SEQ ID NOS: 2276  
42 <170> SOFTWARE: PatentIn version 3.0  
44 <210> SEQ ID NO: 1  
45 <211> LENGTH: 118  
46 <212> TYPE: DNA  
47 <213> ORGANISM: Homo sapiens  
49 <400> SEQUENCE: 1  
50 gaaaggtaca tatattcggt tatgtctaaa ataacaacca gaatcttctt tatatatatgt 60  
52 atttttaaaa gacacatata cacaacaca aacatgtgca gtaaactcaa acacacaa 118  
55 <210> SEQ ID NO: 2  
56 <211> LENGTH: 427  
57 <212> TYPE: DNA  
58 <213> ORGANISM: Homo sapiens  
60 <220> FEATURE:  
61 <221> NAME/KEY: misc\_feature  
62 <223> OTHER INFORMATION: n=a,t,g or c  
65 <400> SEQUENCE: 2  
66 atctaacaaa ggcactttat tgcattacca ttcacaatta acagtcaaga acaaataata 60  
68 ataaacaaaata aaataacttt taagaggaca aggcattaga aataaaaaaag gacactaata 120  
70 acatttgtaa aagcttgcac tggatgtggt tgcccccatt tgtgtgtgt gttgtgtgt 180  
72 tgtggttgtg tggatgtggc cacagctgag cctctgtcac cagagaaggc tgaggccaa 240  
  
Does Not Comply  
Corrected Diskette Needed

Errors must include  
location of mutations in  
field 222

The type of errors shown exist throughout  
the Sequence Listing. Please check subsequent  
sequences for similar errors.

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/954,456

DATE: 11/07/2001  
TIME: 15:21:39

Input Set : N:\EBONY'S\ES.txt  
Output Set: N:\CRF3\11072001\I954456.raw

W--> 74 tggcacacct cagaaaccta cacccgagg ctnggacggc tggactcctg agcacaagct 300  
76 ccctctcgca cccttgcga gacagttgt ctccatttc aaactgacct aaggcttta 360  
78 ctctggatt tttgtttt aaccttctc ccagccagtc ttccggaggg catgattaga 420  
427  
W--> 80 gaagngg  
83 <210> SEQ ID NO: 3  
84 <211> LENGTH: 412  
85 <212> TYPE: DNA  
86 <213> ORGANISM: Homo sapiens  
88 <220> FEATURE:  
89 <221> NAME/KEY: misc\_feature  
90 <223> OTHER INFORMATION: n=a,t,g or c  
93 <400> SEQUENCE: 3  
W--> 94 tttntttttt tttttttttg tttttttttt ttttttaatg ccaagcacaa agtgtacatc 60  
W--> 96 ataaaattca tatttggngt ttggcattat tttantaggt atgatcaaga ccacaaatat 120  
98 ctggccataa aaatattcta ctataataat gaaaaaatat atcattacat catcaatgac 180  
100 tcgaataaaa tatggatag atatggcatt ttcaatgaaa gtttggaaagac acaccacatt 240  
W--> 102 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 300  
W--> 104 tatgnttta gggtagttac gttgtgttattt atcccaatgtttt agttttttttt gggaaattc 360  
W--> 106 tctttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 412  
109 <210> SEQ ID NO: 4  
110 <211> LENGTH: 462  
111 <212> TYPE: DNA  
112 <213> ORGANISM: Homo sapiens  
114 <220> FEATURE:  
115 <221> NAME/KEY: misc\_feature  
116 <223> OTHER INFORMATION: n=a,t,g or c  
119 <400> SEQUENCE: 4  
120 tgacagacca ggcttggcag tttttttttt tttttttttt tttttttttt tttttttttt 60  
W--> 122 ctttggcag cacatctggg tggcattttttt tttttttttt tttttttttt tttttttttt 120  
W--> 124 cgcangangn gggagttccc ttttaggat ctcactttttt tttttttttt tttttttttt 180  
W--> 126 ctggggggca gatctggccg tggggggcaat ggaggagccn aaaggggcac ctggccaggc 240  
128 tccaaactccc tggcattttttt tttttttttt tttttttttt tttttttttt tttttttttt 300  
130 tagaacttgtt agataactcac ggcttcccaag cccttgcattt ctcactttttt tttttttttt 360  
W--> 132 gtctgggctg tccgagtgtt gcccaggcanc caggcagcag tttttttttt tttttttttt 420  
134 cggctcaatc ttcacatcct tttttttttt tttttttttt tttttttttt tttttttttt 462  
137 <210> SEQ ID NO: 5  
138 <211> LENGTH: 261  
139 <212> TYPE: DNA  
140 <213> ORGANISM: Homo sapiens  
142 <400> SEQUENCE: 5  
143 gaggaaaga caaaacgtat ttattccagg ccaggttta aaatgcacac tgcacggttc 60  
145 cttttttttt ttcacccatc tttttttttt tttttttttt tttttttttt tttttttttt 120  
147 ctgtgtgtt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 180  
149 cttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 240  
151 gcagagaaga ggcacaaatc tttttttttt tttttttttt tttttttttt tttttttttt 261  
154 <210> SEQ ID NO: 6  
155 <211> LENGTH: 562  
156 <212> TYPE: DNA  
157 <213> ORGANISM: Homo sapiens

unKnown must be enumerated  
in fields 221, 222 and 223.

The type of errors shown exist throughout  
the Sequence Listing. Please check subsequent  
sequences for similar errors.

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/954,456

DATE: 11/07/2001  
TIME: 15:21:39

Input Set : N:\EBONY'S\ES.txt  
Output Set: N:\CRF3\11072001\I954456.raw

159 <220> FEATURE:  
160 <221> NAME/KEY: misc\_feature  
161 <223> OTHER INFORMATION: n=a,t,g or c  
164 <400> SEQUENCE: 6  
165 tagatttctc atagatttat ttctgcgtca tattatatat agatataatgc atatataacct 60  
W--> 167 tttagcnaaa ggagancaat ctatatacc ttcccttccc caccaaactc acaaaggag 120  
W--> 169 attaaaccct tccaggattt ccatcaagct tcccagatg gccaggccaa naaaagaatc 180  
171 atctctcaac atgttaagaa acggctgcca ttcttaggct ctgggggtga agcagcagca 240  
173 ttcccaggac ccaagggcca gagagagggaa aagaaatgac ttagtgtga caggattcta 300  
175 gatgaacat gtccagtgcac ttctggcat ggcagactag ctcccagaat tctcagggtg 360  
177 ttagtaaagg tggggccct atggctctc agaggctgtc caataggta gggtaggg 420  
179 attaggaactg gggatcaggc atgcaggat ggggtggcag aaaaaacgcc tgggggtta 480  
W--> 181 tgctccagac agagcgaccc ccatcanggc taccactac tcaatgacat gtaatnaca 540  
183 gggacagatg ctgagctct ta 562  
186 <210> SEQ ID NO: 7  
187 <211> LENGTH: 429  
188 <212> TYPE: DNA  
189 <213> ORGANISM: Homo sapiens  
191 <400> SEQUENCE: 7  
192 tggagataaa aacagcgaag tcccacatac cataccctac aagacacaag gtgcgcagac 60  
194 gggcttggg aatgtaccgg cgctgcagga agaggctgtc cgccgagcc gggctgctcc 120  
196 agctacgcgg ggaggcggcc ccattgcaaa gtgcagttc tccgcggagg tggcggtgg 180  
198 tcagtgccag agggccatgg tttccatgtt aaggaagcgg acgtgcacat tggctcaat 240  
200 gtcgatcccc tgccagatct tcaggaagtc ctcgaagggt atccctctgt acacctgatc 300  
202 aggctccatc ttgccccatg cacacgctgg ccgcctccat catggcccg tggcgatgg 360  
204 agcgagcggg ctcctctcg atgtgaggg tttccgacag cagctcctcg accactttac 420  
206 atttcgagg 429  
209 <210> SEQ ID NO: 8  
210 <211> LENGTH: 348  
211 <212> TYPE: DNA  
212 <213> ORGANISM: Homo sapiens  
214 <220> FEATURE:  
215 <221> NAME/KEY: misc\_feature  
216 <223> OTHER INFORMATION: n=a,t,g or c  
219 <400> SEQUENCE: 8  
W--> 220 acataatccc tagtatagtc agatataatcc atcacataga gcaactaggt taaaatata 60  
222 ttcatgtaca tttcttagaga aacttttct actcccatag gctttcaaa gcatggaact 120  
224 tttatacaac agaaatgtt acagaaaattt ctgtatgtt gggttgaagt actgtatgtat 180  
226 gggcagcaat catgtattaa ttacgaagg gaaattgaa atataggac cgaatttgg 240  
228 tttatcatgtt tccagagtac tgctgcacat ctagacactg atttttcaga gttgaaatg 300  
230 taaaatttctt cccggactt tgattgcaca tgaagctgga ctgcgtta 348  
233 <210> SEQ ID NO: 9  
234 <211> LENGTH: 652  
235 <212> TYPE: DNA  
236 <213> ORGANISM: Homo sapiens  
238 <220> FEATURE:  
239 <221> NAME/KEY: misc\_feature  
240 <223> OTHER INFORMATION: n=a,t,g or c  
243 <400> SEQUENCE: 9

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/954,456

DATE: 11/07/2001  
TIME: 15:21:39

Input Set : N:\EBONY'S\ES.txt  
Output Set: N:\CRF3\11072001\I954456.raw

|          |  |     |
|----------|--|-----|
| 244      | tgactttgct gatggtttat taccttaagg aaaagactta cacagagaaa ttgagcaatg  | 60  |
| 246      | aaaacccttc acattgagca aacacattcc acgctacaca aatcatgaga aaaatgagaa  | 120 |
| 248      | ctgttgtgaa acatgacaga ttgcccaagt gttattttc ctctatttga aaattctaag   | 180 |
| 250      | acgtttcctc atgtgttagt tttcagtcac aaaaatggca gtaggaatat ttaaatattta | 240 |
| 252      | aatcacagtt tgaaaataga tacatacata catatatata cacacacaga gatacatagt  | 300 |
| 254      | tgacttatga ttcccagata tgcagggtt tcattgtgac tgcttggatc aagacaagtt   | 360 |
| 256      | tgtaaaaagc agcgacatag ttcaacataa tagtcaggag ctagattact tccctgtat   | 420 |
| 258      | tgctatgcac acacagtaca aggctagcga gattatagac aatctgtctt cgaatctact  | 480 |
| 260      | atcttgataa ttctgaatct ttctcaagtta aaatgcgc tattgtcagt aagcgcccc    | 540 |
| W--> 262 | ataaaaggta ggcctttgan tgggggacga taactngctt caccaggaga gaggcncgg   | 600 |
| W--> 264 | tcaactccn ggttcgtct ggengcggc acagccgna acctgggtcc cg              | 652 |
| 267      | <210> SEQ ID NO: 10  |     |
| 268      | <211> LENGTH: 614  |     |
| 269      | <212> TYPE: DNA  |     |
| 270      | <213> ORGANISM: Homo sapiens                                       |     |
| 272      | <220> FEATURE:   |     |
| 273      | <221> NAME/KEY: misc_feature                                       |     |
| 274      | <223> OTHER INFORMATION: n=a,t,g or c                              |     |
| 277      | <400> SEQUENCE: 10   |     |
| W--> 278 | nggctgtgat aggtttattc agaggaagca cttagactctg gggtagctca catggtaag  | 60  |
| 280      | aaagacttcc aggagcaggc attgaagggt tggcaccctg ggtgagtgac caaggtcagc  | 120 |
| 282      | gagagtcaact tgggggggg acggaagatg acctggctga tctggccagg gatgggttag  | 180 |
| W--> 284 | aagaccagga ggaggaagac ggtgagcagc accagtagca gcagcaccag ggtngccag   | 240 |
| W--> 286 | taccggcnca gatgaagaag acaaaggct tcagcgggtt cacaaccag ttgaaggaag    | 300 |
| 288      | tttggggcg gctgggttc tccagaaggc tcttggctgc ttcccccct tccccattgg     | 360 |
| W--> 290 | ccgtttctcg ggcttccttc cacagtcaag caagtc当地 ctcttgctc caacnttgcc     | 420 |
| W--> 292 | cgtgaagaat gtacacatttgc acanccatgt ctgtgaactc ccangtctt ttgcccggcc | 480 |
| W--> 294 | ttccttcctcc tctgtttcg cttcttcttgc caagcctgag cctcctgngc ttccggtaa  | 540 |
| W--> 296 | gtccttgctc cttaagttta ataacggca cagcctcaa ggggggaaga aacagattga    | 600 |
| W--> 298 | ctcngccggc ccat  | 614 |
| 301      | <210> SEQ ID NO: 11  |     |
| 302      | <211> LENGTH: 187  |     |
| 303      | <212> TYPE: DNA  |     |
| 304      | <213> ORGANISM: Homo sapiens                                       |     |
| 306      | <400> SEQUENCE: 11   |     |
| 307      | tttttgagac atgaaaacgt atgcattttt attaaccaga tttttaaaaa aggacaaagg  | 60  |
| 309      | cacatgtatc agggtgcggg ggggtcatgg tgcacatctg atttcataag caatgtcagt  | 120 |
| 311      | ctccctctaaa ctggcatctt ggccttgaca ggtaggcaga acaaacggga cgctggcacc | 180 |
| 313      | ggaacct  | 187 |
| 316      | <210> SEQ ID NO: 12  |     |
| 317      | <211> LENGTH: 349  |     |
| 318      | <212> TYPE: DNA  |     |
| 319      | <213> ORGANISM: Homo sapiens                                       |     |
| 321      | <400> SEQUENCE: 12   |     |
| 322      | tttctcggtc aataatttat tagtaaaaata tacatttctc attattaaag aataaaagct | 60  |
| 324      | ttcagccctg ctgaacacac atctgaggc tcaagaaaac cagacaagat agctgactct   | 120 |
| 326      | cccacatagc cctttccata aaggcgattc ctaagcttaa acacacacaa agctggggct  | 180 |
| 328      | gtccctcttgc aatccatgg gaaacaggcc ccaagatcag gggacctgga gtccggagct  | 240 |
| 330      | tgggtgcag tctgtcactt gacaccctct cgaagagcac gcagggaaac ctgtcctgg    | 300 |

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/954,456

DATE: 11/07/2001  
TIME: 15:21:40

Input Set : N:\EBONY'S\ES.txt  
Output Set: N:\CRF3\11072001\I954456.raw

|     |   |     |
|-----|---|-----|
| 332 | gatggagtct ttctggggat gcccacgtct gtgctgcctg gaaccgggt               | 349 |
| 335 | <210> SEQ ID NO: 13   |     |
| 336 | <211> LENGTH: 476   |     |
| 337 | <212> TYPE: DNA   |     |
| 338 | <213> ORGANISM: Homo sapiens  |     |
| 340 | <400> SEQUENCE: 13  |     |
| 341 | tcacattttgt atgtgtcatt tatttcgggt gcgctgggaa aagagaacgc agtttctctc  | 60  |
| 343 | cccgccctccct cctcgctggg tagaactaac tctaaaacac caatatctca acactgaacc | 120 |
| 345 | ctcccaaattc gcaagagttt tcttttcccc ttccttgc ttcttttaa gctgattggc     | 180 |
| 347 | ttttgcattat cttgcgtctt cttttcttt ttcgtctctc ccccgccctgt gttgggtat   | 240 |
| 349 | tttgcgtgggt ttttgcgtttt cccctggctg tgctgaggca gcaggctgg tagggttag   | 300 |
| 351 | gactgcctc tgcgtgggtt ctctttatcc atcttttca tcttcatcct tcgattctga     | 360 |
| 353 | aaccagattt tgacctgccc ctgcgtgaga ttgagaaccc gggccaccc ataccgacgg    | 420 |
| 355 | tccctggta aatacatatt gaagagaaac tcctctcca gttccagcgt caggta         | 476 |
| 358 | <210> SEQ ID NO: 14   |     |
| 359 | <211> LENGTH: 388   |     |
| 360 | <212> TYPE: DNA   |     |
| 361 | <213> ORGANISM: Homo sapiens  |     |
| 363 | <400> SEQUENCE: 14  |     |
| 364 | tgggggttagg ctctttatta gacggttatt gctgtactac agggtcagag tgcagtgtaa  | 60  |
| 366 | gcagtgtcag aggccgcgt tcagccaaag aatgtggat ttctctccct attgatcaca     | 120 |
| 368 | gtgggtgggt ttcttcagaa aagccccaga ggcaggacc agtgagctcc aaggttagaa    | 180 |
| 370 | gttggactgg aagggttcag tcacatgctg ctttcaagct ttcaggctgg gcaacaagga   | 240 |
| 372 | ggagatgccc atgacgtgcc agggctccc catctgacac cagtgaagtc tggtaagaca    | 300 |
| 374 | gcagccgcac gcctgcctct gccaggagg caatcatggt aggcagcatt gcagggtcag    | 360 |
| 376 | aggtctgagt ccggaaatagg agcaaggaa                                    | 388 |
| 379 | <210> SEQ ID NO: 15   |     |
| 380 | <211> LENGTH: 461   |     |
| 381 | <212> TYPE: DNA   |     |
| 382 | <213> ORGANISM: Homo sapiens  |     |
| 384 | <400> SEQUENCE: 15  |     |
| 385 | tgcggccgcc tccatgaagc gaaaaagcga gccgcggtcg agctggcccg ccgccccccc   | 60  |
| 387 | tgctcgccgg ctgctcgctcg acctcgccgg gtgtgaagaa gatccgcagc tccacgcagc  | 120 |
| 389 | aagaccgcg ccgcggacc ccccaggacg acgtgtaccc ggacatcacc gatgccttt      | 180 |
| 391 | gttttgcatt tctctacagc agaccaaaga gtgcataaaa tgtacattat ttcagcatag   | 240 |
| 393 | ataatgaact tgaatatgag aacttctacg cagattttgg accactcaat ctggcaatgg   | 300 |
| 395 | tttacagata ttgttgcag atcaataaga aattaaagtc cattacaatg ttaaggaaga    | 360 |
| 397 | aaattgttca ttttactggc tctgatcaga gaaaacaagc aaatgctgcc ttccctgttg   | 420 |
| 399 | gatgctacat gtttatataat ttggggagaa ccccgaaagaa g                     | 461 |
| 402 | <210> SEQ ID NO: 16   |     |
| 403 | <211> LENGTH: 339   |     |
| 404 | <212> TYPE: DNA   |     |
| 405 | <213> ORGANISM: Homo sapiens  |     |
| 407 | <400> SEQUENCE: 16  |     |
| 408 | aaggagggat gtctgttat ttacagtgca ccctttgtgc caggccctta tttcatgac     | 60  |
| 410 | cttacccaaac tctacaatct tgcaaggccgg tttacatcat ctccacttta cagttcaaga | 120 |
| 412 | aaccaaaggct cagattcata gcccctgaat agtccctcat agtccctgag ttcataagta  | 180 |
| 414 | gtggttatacg tacaatctaa gttatataat tccaaagcca gtgattttc tggccttgag   | 240 |
| 416 | ctataggtcc aaaggctcca acaggccct ccagactcaa tggcagggtg gtgtctgcac    | 300 |

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/954,456

DATE: 11/07/2001  
TIME: 15:21:41

Input Set : N:\EBONY'S\ES.txt  
Output Set: N:\CRF3\11072001\I954456.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No  
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:74 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2  
L:74 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:80 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2  
L:80 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:94 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3  
L:94 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:96 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3  
L:96 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:102 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3  
L:102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:104 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3  
L:104 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:106 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3  
L:106 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:122 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:4  
L:122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:124 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:4  
L:124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:126 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:4  
L:126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:132 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:4  
L:132 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:167 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:6  
L:167 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:169 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:6  
L:169 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:181 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:6  
L:181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:220 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:8  
L:220 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:262 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:9  
L:262 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:264 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:9  
L:264 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:278 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:10  
L:278 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:284 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:10  
L:284 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:286 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:10  
L:286 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:290 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:10  
L:290 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:292 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:10  
L:292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:294 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:10  
L:294 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/954,456

DATE: 11/07/2001  
TIME: 15:21:41

Input Set : N:\EBONY'S\ES.txt  
Output Set: N:\CRF3\11072001\I954456.raw

L:296 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:10  
L:296 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:298 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:10  
L:298 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:867 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:38  
L:867 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38  
L:955 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:41  
L:955 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41  
L:2619 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:46  
L:2619 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46  
L:2621 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:46  
L:2621 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46  
L:2637 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:47  
L:2637 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47  
L:2643 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:47  
L:2643 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47  
L:2645 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:47  
L:2645 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47  
L:2663 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:48  
L:2663 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48  
L:2667 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:48  
L:2667 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48  
L:2669 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:48  
L:2669 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48  
L:2671 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:48  
L:2671 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48  
L:2673 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:48  
L:2673 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48  
L:2689 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:49  
L:2689 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49  
L:2697 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:49  
L:2697 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49  
L:2699 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:49  
L:2699 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49  
L:2701 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:49  
L:2701 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49  
L:2719 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:50  
L:2719 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50  
L:2721 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:50  
L:2721 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50  
L:3163 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:55  
L:3163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55  
L:3717 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:60  
L:3717 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60  
L:3768 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:62  
L:3768 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62  
L:3842 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:65  
L:3842 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65  
L:3860 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:66

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/954,456

DATE: 11/07/2001

TIME: 15:21:41

Input Set : N:\EBONY'S\ES.txt

Output Set: N:\CRF3\11072001\I954456.raw

L:3860 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

L:3862 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:66

L:3862 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

L:3864 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:66

L:3864 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66

**Raw Sequence Listing Error Summary**

**ERROR DETECTED**

**SUGGESTED CORRECTION**

**SERIAL NUMBER:** 09/954456

**ATTN: NEW RULES CASES: PLEASE DISREGARD ENCLISII "ALPHA" HEADERS, WHICH WERE INSERTED BY P**

1  Wrapped Nucleic  
    Wrapped Aminos

The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to 3; this will prevent "wrapping".

2  Invalid Line Length

The rules require that a line not exceed 72 characters in length. This includes white spaces.

3  Misaligned Amino  
    Numbering

The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4  Non-ASCII

The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5  Variable Length

Sequence(s)  contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>..<223> section that some may be missing.

6  PatentIn 2.0  
    "bug"

A "bug" in PatentIn version 2.0 has caused the <220>..<223> section to be missing from amino acid sequence(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>..<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>..<223> sections for Artificial or Unknown sequences.

7  Skipped Sequences  
    (OLD RULES)

Sequence(s)  missing. If intentional, please insert the following lines for each skipped sequence  
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
(ii) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8  Skipped Sequences  
    (NEW RULES)

Sequence(s)  missing. If intentional, please insert the following lines for each skipped sequence  
<210> sequence id number  
<400> sequence id number  
000

9  Use of n's or Xaa's  
    (NEW RULES)

Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Per 1.823 of Sequence Rules, use of <220>..<223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents

10  Invalid <213>  
    Response

Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>..<223> section is required when <213> response is Unknown or Artificial Sequence

11  Use of <220>

Sequence(s)  missing the <220> "Feature" and associated numeric identifiers and responses.  
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

12  PatentIn 2.0  
    "bug"

Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13  Misuse of n

n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.